REMARKS

This is in full and timely response to the non-final Office Action mailed on March 12, 2003. Reexamination in light of the following remarks is respectfully requested.

Claims 23-44 are currently pending in this application, with claims 23, 36, 43 and 44 being independent. No new matter has been added.

Rejection of under 35 U.S.C. 102, 103 and 112

Claims 1-23 were rejected under 35 U.S.C. 102, 103 and 112.

This rejection is respectfully traversed for at least the following reasons.

While not conceding the propriety of these rejections and in order to advance prosecution of the above-identified application, claims 1-22 have been canceled without prejudice or disclaimer of their underlying subject matter. Withdrawal of this rejection is respectfully requested.

Newly added claims

Newly added claim 23 and the claims dependent thereon

include:

a first processor element of the plurality of processor elements for executing a first user program of a plurality of user programs, the first processor element executes a wait instruction, the wait instruction suspends processing of the first user program; and

a second processor element of the plurality of processor elements for executing a second user program of the plurality of user programs, the second processor element executes a wait release instruction, the wait release instruction commands the first processor element to resume the processing of the first user program.

Newly added claim 36 and the claims dependent thereon include:

suspending processing of a first user program of a plurality of user programs, the first user program including a wait instruction, the first processor element executing the wait instruction to suspend the processing of a first user program; and

resuming the processing of the first user program by

executing a wait release instruction, the wait release
instruction being including within a second user program of
a plurality of user programs, a second processor element of
the plurality of processor elements for executing the wait
release instruction,

the wait release instruction commanding the first processor
element to resume the processing of the first user program.

Newly added claim 43 and the claims dependent thereon
include:

first processing and second processing to be performed in
parallel based on instructions written in programs, wherein

the first processing executes a wait instruction to suspend
the first processing; and

the second processing executes a wait release instruction to
resume execution of the first processing,

the second processing enters a synchronization waiting state
by executing the wait release instruction until the first
processing enters the waiting state when the first
processing is not in the waiting state.

Newly added claim 44 and the claims dependent thereon include:

first processing and second processing to be performed in parallel based on instructions written in programs, wherein

the first processing executes a wait instruction to suspend the first processing; and

the second processing executes a wait release instruction to resume execution of the first processing,

the second processing executing a next instruction after executing the wait release instruction without suspending the second processing.

These features are not found within Applicant's admitted related art, Dewa et al. (U.S. Patent No. 5,634,071), Ueno (U.S. Patent No. 5,781,775), and Kim et al. (U.S. Patent No. 5,581,777) either individually or as a whole. Allowance of the claims is respectfully requested.

Conclusion

For the foregoing reasons, all the claims now pending in the present application are allowable, and the present application is in condition for allowance. Accordingly, favorable reexamination and reconsideration of the application in light of the amendments and remarks is courteously solicited.

If the Examiner has any comments or suggestions that could place this application in even better form, the Examiner is requested to telephone Brian K. Dutton, Reg. No. 47,255, at 202-955-8753, or the undersigned attorney.

If any fee is required or any overpayment made, the Commissioner is hereby authorized to charge the fee or credit the overpayment to Deposit Account # 18-0013.

Respectfully submitted,

DATE: July 14, 2003

Ronald P. Kananen
Reg. No. 24,104

Brian Dutton
Reg. No. 47,255

RADER, FISHMAN & GRAUER PLLC
Lion Building
Suite 501
1233 20th Street, N.W.
Washington, D.C. 20036
Tel: (202) 955-3750
Fax: (202) 955-3751
Customer No. 23353